Positive displacement meters series LBM 1000 - LBM 3000



LBM 3000 with mechanical counter

LBM 3000 with VEGA II







Positive displacement meters series LBM 1000 - LBM 3000

LBM 3000 with mechanical counter LBM 3000 with EM6422 and VEGA II

ISOIL PD meter series **LBM** sizes 8" and 10" offers high accuracy over a large range of flow rate. This accuracy remains constant during long periods of use.

Visual indication of the flow rate measured can be obtained when associated with mechanical counter or electronic flow computer directly mounted on the meter or remote by means of a pulses emitter (see VEGA II or VEGA T leaflets).

Applications

- » for barges loading
- » petroleum products transfer in refineries, loading terminals and pipelines

Filtering and air elimination

To assure a measuring accuracy and preserve the meter from damage, the fluid under measurement must be properly filtered and air or gas must be eliminated. Isoil produces a wide range of strainers and strainer – air separators.

Operation

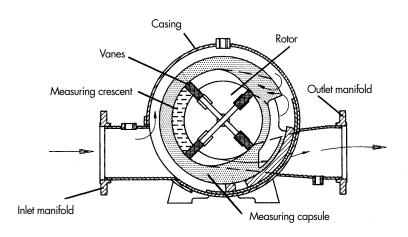
While rotating, the vanes are driven by the internal surface of the single body. This means that the self – lubricating vanes are always in contact with the internal surface of measuring chamber, therefore product leakage is avoided and though high accuracy is granted.

The calibration mechanism allows micrometric adjustment. It is not necessary to change gears.

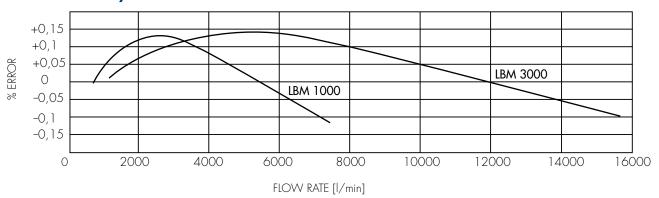
When an electronic counter is remote, the meter mounts a pulses emitter or encoder (see Encoder Isoil EM6422 data sheet).



LBM 3000 with mechanical counter



Accuracy curves

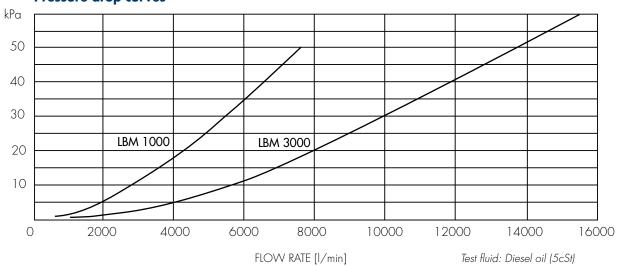


Technical specifications

	STAN	STANDARD	
	LBM 1000	LBM 3000	
EU Directives compliance	ATEX and PED		
Working conditions			
Flow rate:	[700; 7,850] l/min @ 10 cSt	[1,500; 15,700] l/min @ 10 cSt	
Working pressure:	1,930 kPa max @ 37°C	1,930 kPa max @ 37°C	Higher values
Test pressure:	2,990 kPa	2,990 kPa	Higher values
Working temperature:	[-30; +100] °C*	[-30; +100] °C*	Higher and lower values
Construction			
Manifold and flanges:	Carbon Steel	Carbon Steel	Carbon Steel for low temperature
External body and covers:	Carbon Steel	Carbon Steel	Carbon Steel for low temperature
Internal body:	Cast Iron Meehanite	Cast Iron Meehanite	
Internal Covers:	Cast Iron Meehanite	Cast Iron Meehanite	
Rotor:	Cast Iron Meehanite	Cast Iron Meehanite	
Vanes:	Aluminium with rilsan tip (max 60°C)	Aluminium with rilsan tip (max 60°C)	Aluminium with PTFE tip (T>60°C)
Gaskets:	Nitrile	Nitrile	Viton
Ball Bearings:	Stainless Steel	Stainless Steel	
Seal:	Mechanical	Mechanical	Magnetic drive
Flanged:	8" ANSI 150 RF	10" ANSI 150 RF	Others upon request
Readout:	m ³	m³	Others upon request
Flow direction:	Left (IN) to right (OUT)	Left (IN) to right (OUT)	Right (IN) to left (OUT)
Performances			
Accuracy:	± 0.15%	± 0.15%	
Repeatability:	0.04%	0.04%	
Pressure drop:	Refer to the diagram attached	Refer to the diagram attached	

^{*} Temperature range, printed on plate, will always span 60° C





Accessories

Pulses emitter

Encoder EM6422 Ex-d. Pulses emitter EM 345 Eex-i or EM T2 Exd incorporated in Veeder Root 7887 register

With VEGA II compensation

Is achieved by an algorithm based on "alfa" coefficient or density

761

Extension for mechanical counter

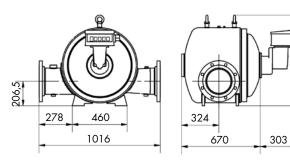
L = 250 mm e 500 mm

ISOVALVE automatic valve

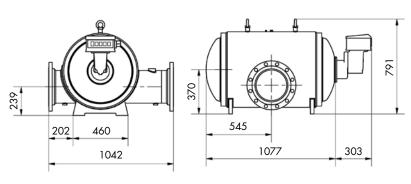
8", 10" Flow limiting, no return

P.D. meter with mechanical counter

LBM 1000 8"



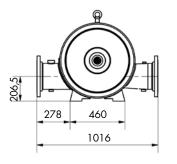
LBM 3000 10"

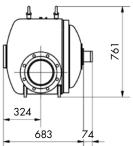


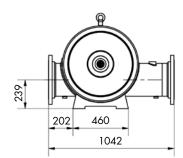
LBM 3000 10"

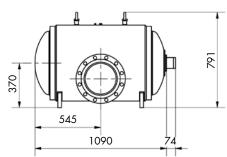
P.D. meter with EM6422

LBM 1000 8"









P.D. meter with EM6422

Туре	Weight
LBM 1000	432 Kg
LBM 3000	797 Ka

P.D. meter with mechanical counter

Туре	Weight	
LBM 1000	440 Kg	
LBM 3000	805 Kg	

Accessorie	Weight
Printer	5 Kg



74, via Madonna delle Rose Phone +39 035 4239.011 Fax +39 035 582078 sales@isoil-impianti.it www.isoilmeter.com Isoil Impianti spa - Italy Sales offices **20092 Cinisello Balsamo (Mi)** 27, via F.lli Gracchi Phone +39 02 91988.5 Fax +39 02 66012457